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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,917	08/26/2003	Blaine D. Gaither	10015698-4	5774
7590	05/04/2007		EXAMINER	
HEWLETT-PACKARD COMPANY			BRADLEY, MATTHEW A	
Intellectual Property Administration			ART UNIT	PAPER NUMBER
P.O. Box 272400				2187
Fort Collins, CO 80527-2400				
			MAIL DATE	DELIVERY MODE
			05/04/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/649,917	GAITHER, BLAINE D.	
	Examiner	Art Unit	
	Matthew Bradley	2187	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 16 February 2007.

2a)  This action is **FINAL**.                    2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1,3,4 and 7-10 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) 4 and 8-10 is/are allowed.

6)  Claim(s) 1,3, and 7 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892) 4)  Interview Summary (PTO-413)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. \_\_\_\_.  
3)  Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 5)  Notice of Informal Patent Application  
6)  Other: \_\_\_\_.

## DETAILED ACTION

### ***Response to Amendment***

This Office Action has been issued in response to amendment filed 16 February 2007. Applicant's arguments have been carefully and fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made as noted infra. Accordingly, this action has **NOT** been made final.

### ***Claim Status***

Claims 1, 3-4, and 7-10 remain pending and are ready for examination.

### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Independent claim 1 recites, 'a system for maintaining identity of which device, if any, owns the group of lines, and which device, if any, owns each individual line within the group of lines.' Dependent claim 3 recites, 'at least two lines in the group of lines having separate owners.' This is indefinite. A line has **an** owner when its state is Modified or Exclusive (page 10 lines 18-19 of Applicant's specification). Additionally, page 2 lines 4-5 of Applicant's specification states that, 'there can only be one "owner" of a line. If an entire group of lines is owned by a device (a condition that might exist that is provided for with the language in the claims), the

Examiner is unsure how a different device might own individual lines within that group of lines (also recited in the claims as the claims provide for the condition in which a different device can own a line within a group of lines that might have a different device that owns the entire group of lines). Further clarification is respectfully requested.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Jim Handy The Cache Memory Book herein after referred to as Handy.

As per independent claim 1, Handy teach,

- a cache memory that reads and caches a group of lines with a single memory transaction; and (pages 67-69 and 202: taught as a 'burst')
- a system for maintaining identity of which device, if any, owns the group of lines, and which device, if any, owns each individual line within the group of lines (pages 67-69 and 202: as the language, 'if any' is recited in the claims, Handy anticipates this as the condition that exists when no device owns any lines).

As per independent claim 7, Handy teach,

- retrieving a group of lines in response to a request for a single line; and (pages 67-69 and 202: taught as a 'burst')

- o maintaining ownership information for the group of lines and for each individual line within the group of lines (pages 67-69 and 202: as the language recited in the claims provides for a condition to exist when no device owns any lines).

***Allowable Subject Matter***

Claims 4 and 8-10 were indicated allowable in the Office Action dated 16 August 2005. Their status remains allowed.

***Response to Arguments***

Applicant's arguments have been carefully and fully considered in light of the instant amendment, filed 16 February 2007, but are considered moot in light of the new ground(s) of rejection not necessitated by amendment.

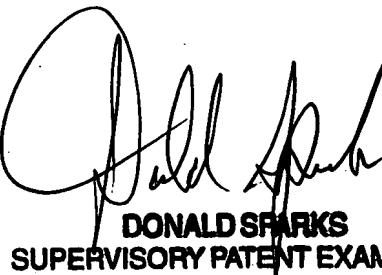
***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew Bradley whose telephone number is (571) 272-8575. The examiner can normally be reached on 6:30-3:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald A. Sparks can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DAS/mb

  
**DONALD SPARKS**  
**SUPERVISORY PATENT EXAMINER**